



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352  
December 17, 2013

Mr. John Sauger, General Manager,  
Zion Restoration Project  
ZionSolutions, LLC  
101 Shiloh Boulevard  
Zion, IL 60099

SUBJECT: ZION NUCLEAR POWER STATION MASTER INSPECTION PLAN –  
CALENDAR YEAR 2014

Dear Mr. Sauger:

In accordance with the U.S. Nuclear Regulatory Commission (NRC) Inspection Manual Chapter (IMC) 2561, "Decommissioning Power Reactor Inspection Program," and IMC 2690, "Inspection Program for Dry Cask Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations and for 10 CFR Part 71 Transportation Packagings," the NRC Region III staff developed a Master Inspection Plan (MIP) for the Zion Station for calendar year 2014. The inspection plan is based on your current performance in executing the site decommissioning project and your planned decommissioning activities for the site in January – December 2014. The plan outlines how we intend to focus our regional inspection resources to provide oversight for decommissioning activities including the dry cask storage campaign.

The MIP is based, in part, on your proposed schedule of decommissioning activities for calendar year 2014. As a result, the plan and the focus of inspection activities may change to reflect those activities or your performance. In order to ensure that this MIP remains current, we request that you keep the Materials Control, ISFSI, and Decommissioning Branch (MCID) staff informed of any significant changes in your proposed schedule of decommissioning activities. You will be informed of significant changes to our plans for inspections at the Zion site.

Since the site initiated significant decommissioning activities in 2011, and those activities are slated to continue throughout 2014, the NRC regional office intends to perform nominally one routine onsite decommissioning safety inspection per month. Also, since you plan to commence fuel loading into dry casks in 2014, the MIP also reflects our intended inspection scope for the dry cask storage campaign. In addition, we plan to implement our routine physical security inspection program for both the Independent Spent Fuel Storage Installation (ISFSI) and the plant overall.

The following is a list of the routine and select discretionary inspection procedures we expect to use during our inspections in 2014. The procedures used during each inspection will depend on

the specific activities being conducted at the site. Additional discretionary inspection procedures may be used if decommissioning or ISFSI activities warrant.

<u>Inspection Procedure</u>	<u>Title</u>
IP 36801	Organization, Management and Cost Controls
IP 37801	Safety Reviews, Design Changes, and Modifications
IP 40801	Self-Assessment, Auditing, and Corrective Action
IP 60801	Spent Fuel Pool Safety
IP 62801	Maintenance and Surveillance
IP 71801	Decommissioning Performance and Status Review
IP 83750	Occupational Radiation Exposure
IP 84750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring
IP 86750	Solid Radioactive Waste Management and Transportation of Radioactive Materials
IP 81700	Physical Security Program for Power Reactors
IP 81311	Physical security Requirements for ISFSIs
IP 60855	Operation of an ISFSI
IP 64704	Fire Protection

In accordance with Title 10 of the *Code of Federal Regulations* 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC's website at <http://www.nrc.gov/reading-rm/adams.html>.

We will gladly discuss any questions you may have regarding this MIP. If you have questions, please feel free to contact the following members of my staff: Matthew Learn (ISFSI) at (630) 829-9603, Eugenio Bonano (Security) at (630) 829-9826 and Wayne Slawinski (all other areas) at (630) 829-9820.

Sincerely,

**/RA/**

Robert J. Orlikowski, Chief  
Materials Control, ISFSI, and  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket Nos. 50-295; 50-304; 72-1037  
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Letter to John Sauger from Robert J. Orlikowski dated December 17, 2013

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CALENDAR YEAR 2014

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